

## Patent claims

1. A method for adjusting an air vent (3) for air-conditioning a motor vehicle, the air vent (3) having  
5 assigned to it an actuator for controlling a fan device and/or an actuator for controlling air jet divergence and/or an actuator for the air direction control means and/or a heating device, and at least one sensor being provided for recording measured values, characterized  
10 in that the settings of the air vent (3) are adjusted as a function of measured values of the sensor.
2. The method as claimed in claim 1, characterized in that the automatic adjustment changes the setting of  
15 the air vent (3) between spot jet and diffuse outflow.
3. The method as claimed in claim 1 or 2, characterized in that the automatic adjustment changes the directional setting of the air vent (3).  
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4. The method as claimed in one of the preceding claims, characterized in that the automatic adjustment changes the volume of air which enters the vehicle cabin through the air vent (3).  
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5. The method as claimed in one of the preceding claims, characterized in that the automatic adjustment changes the speed at which the air enters the vehicle cabin through the air vent (3).  
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6. The method as claimed in one of the preceding claims, characterized in that the automatic adjustment changes the mixing ratio of hot and cold air which enters the vehicle cabin through the air vent (3).  
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7. The method as claimed in one of the preceding claims, characterized in that the automatic adjustment

changes the temperature of the air which enters the vehicle cabin through the air vent (3).

8. The method as claimed in one of the preceding  
5 claims, characterized in that the automatic adjustment changes the humidity of the air which enters the vehicle cabin through the air vent (3).

9. The method as claimed in one of the preceding  
10 claims, characterized in that the automatic adjustment changes a fragrance and/or the concentration thereof added to the air which enters the vehicle cabin through the air vent (3).

15 10. The method as claimed in one of the preceding claims, characterized in that the sensor detects the surface temperature of at least one body part of an occupant.

20 11. The method as claimed in one of the preceding claims, characterized in that the sensor detects seat occupancy and/or seat position and/or the posture and/or size of the occupant.

25 12. The method as claimed in one of the preceding claims, characterized in that the sensor detects solar radiation.

13. The method as claimed in one of the preceding  
30 claims, characterized in that the sensor detects the status of one or more windows and/or of a sunroof and/or of a soft top.

14. The method as claimed in one of the preceding  
35 claims, characterized in that the sensor detects humidity.

15. The method as claimed in one of the preceding claims, characterized in that the sensor detects zone-related measured values.

5 16. The method as claimed in one of the preceding claims, characterized in that manual readjustments are stored and taken into account when determining the optimum setting parameters for the air vent (3).

10 17. An air-conditioning or heating system having at least one air-conditioning controller and one or more air vents (3), the air vent (3) having assigned to it a heating device and/or an air volume control means and/or an actuator for the air volume control means  
15 and/or a fan device and/or an actuator for controlling a fan device and/or an actuator for the air direction control means and/or an actuator for controlling air jet divergence, and at least one sensor being provided for recording measured values, characterized in that a  
20 program for automatically adjusting the air vent(s) (3) as a function of measured values and setting values is assigned to the air-conditioning controller.

25 18. The air-conditioning or heating system as claimed in claim 17, characterized in that the program is adaptive.